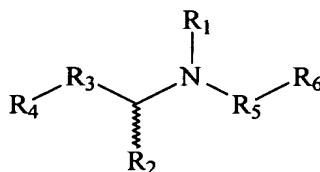


AMENDMENTS TO THE CLAIMS

1. (Twice Amended) A method of treating a viral infection by inhibiting replication of a virus by decreasing the infinity of GAPDH for viral RNA in the virus infected cells, comprising administering to a subject in need thereof a therapeutically effective amount of a deprenyl compound, such that treatment of the viral infection occurs by inhibiting replication of a virus by decreasing the infinity of GAPDH for viral RNA in a virus infected cell.
2. (Original) The method of claim 1, wherein the viral infection is caused by an RNA virus.
3. (Previously Amended) The method of claim 2, wherein said RNA virus is HIV.
4. (Original) The method of claim 1, wherein the deprenyl compound is represented by the formula :



Formula 1

in which

R₁ is hydrogen, alkyl, alkenyl, alkynyl, aralkyl, alkylcarbonyl, arylcarbonyl, alkoxy carbonyl, or aryloxy carbonyl;

R₂ is hydrogen or alkyl;

R₃ is a single bond, alkylene, or -(CH₂)_n-X-(CH₂)_m;

in which X is O, S, or N-methyl; m is 1 or 2; and n is 0, 1, or 2;

R₄ is alkyl, alkenyl, alkynyl, heterocyclyl, aryl or aralkyl; and


R₅ is alkylene, alkenylene, alkynylene and alkoxylenes; and

R₆ is C₃-C₆ cycloalkyl or

—C≡CH ; or

R₂ and R₄-R₃ are joined to form, together with the methine to which they are attached, a cyclic or polycyclic group;
and pharmaceutically acceptable salts thereof.

5. (Original) The method of claim 1, wherein the deprenyl compound is (-)-desmethyldeprenyl.

 6. (Original) The method of claim 1, wherein the deprenyl compound is administered to the subject by transdermal administration.

7. (Original) The method of claim 1, wherein the deprenyl compound is administered in a pharmaceutically acceptable carrier.

8. (Original) The method of claim 1, wherein the subject is a human.

9. (Canceled)

10. (Canceled)

11. (Canceled)

12. (Canceled)

13. (Canceled)

14. (Canceled)

15. (Canceled)

16. (Canceled)

17. (Canceled)

18. (Canceled)

19. (Canceled)

20. (Canceled)

21. (Canceled)

22. (Canceled)

23. (Canceled)

24. (Canceled)

25. (Canceled)

26. (Canceled)

27. (Canceled)

28. (Canceled)

29. (Canceled)

30. (New) A method of inhibiting virus replication in a cell of a virus in virus infected cells, comprising administering to a subject in need thereof a therapeutically effective amount of a deprenyl compound, such that treatment of the viral infection occurs by inhibiting replication of a virus in a virus infected cell.

31. (New) A method of claim 30, wherein the deprenyl compound is desmethyldeprenyl.